

**FIGURE 1**  
(Prior Art)



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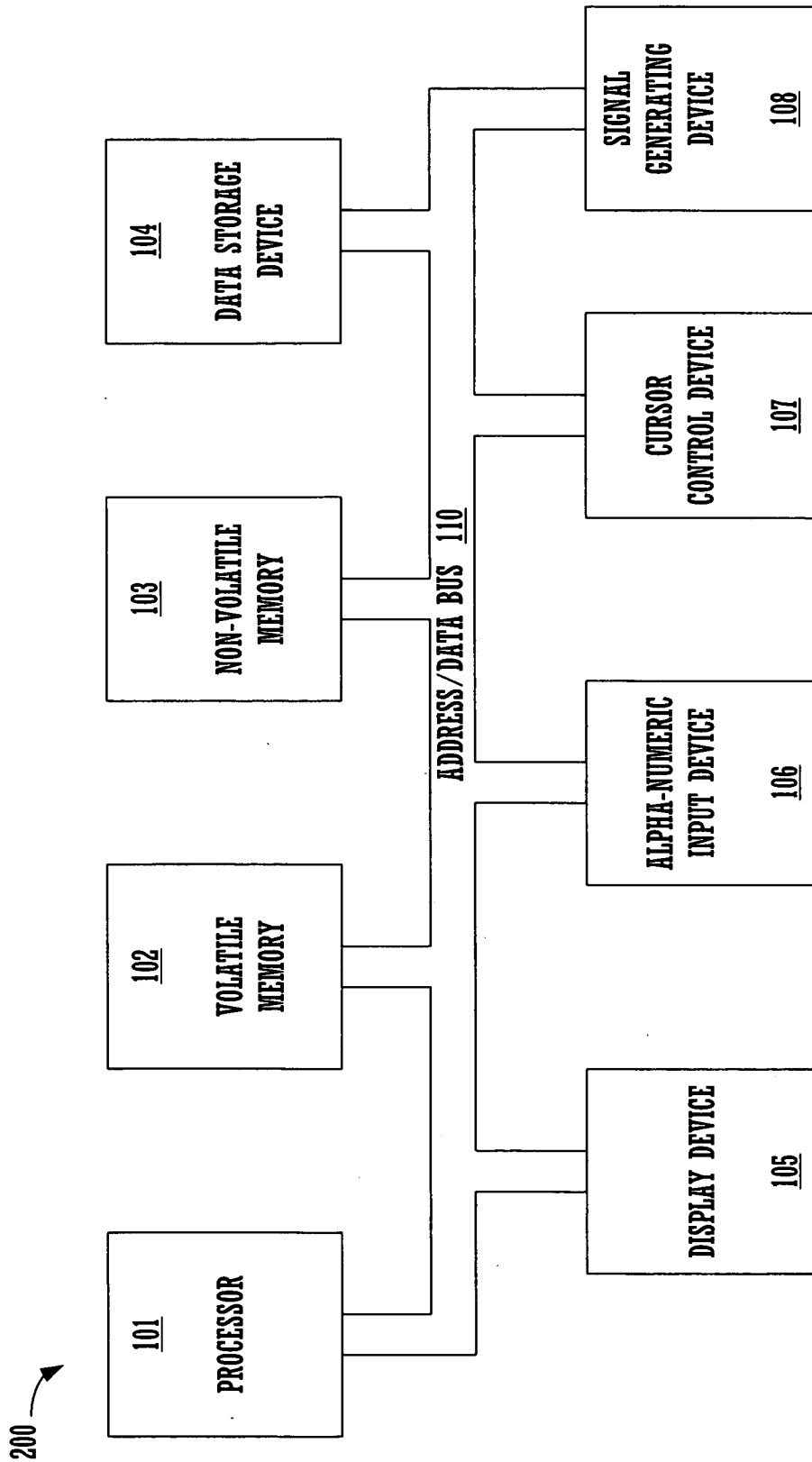


FIGURE 2



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300  
↘

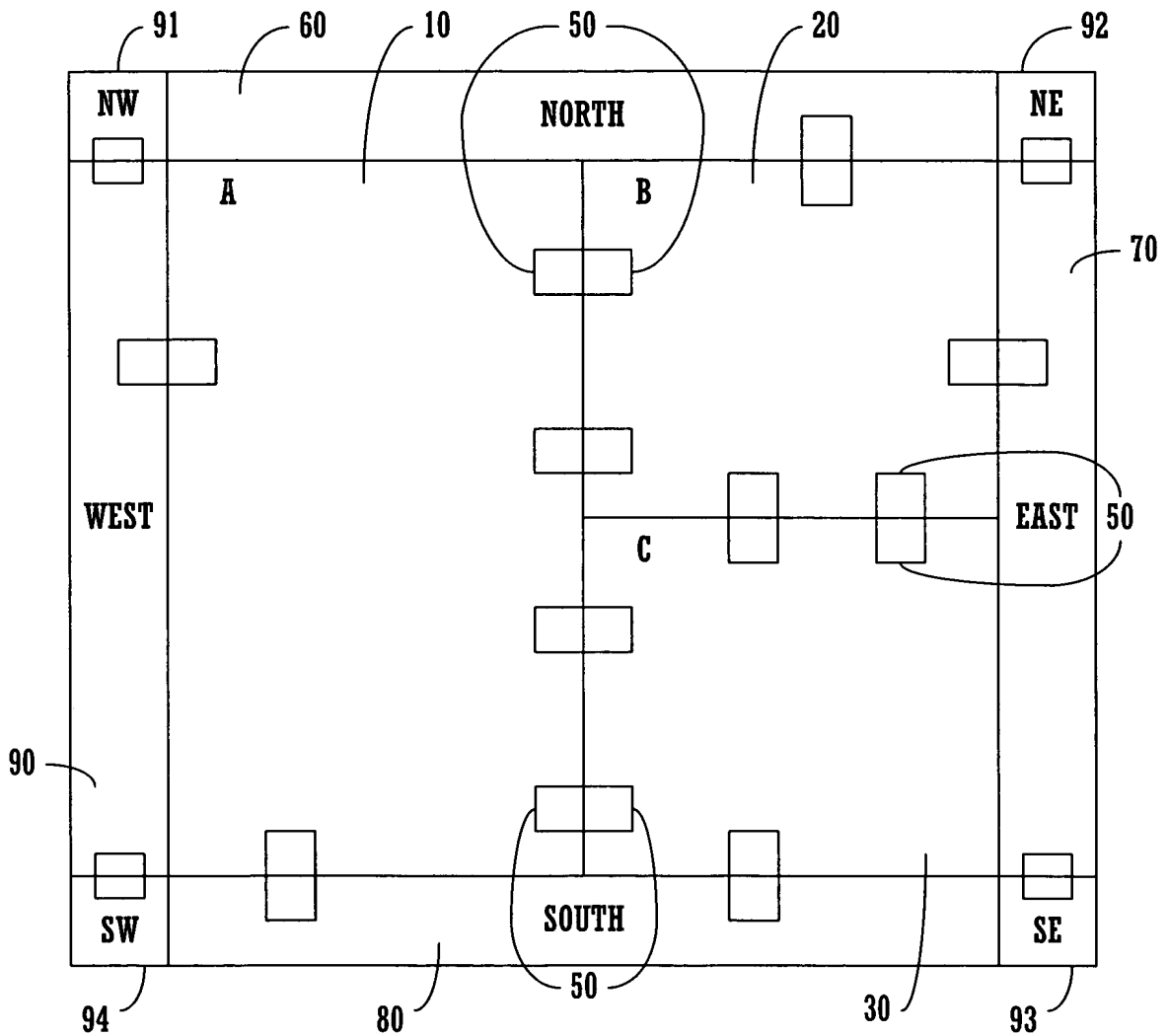


FIGURE 3



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400

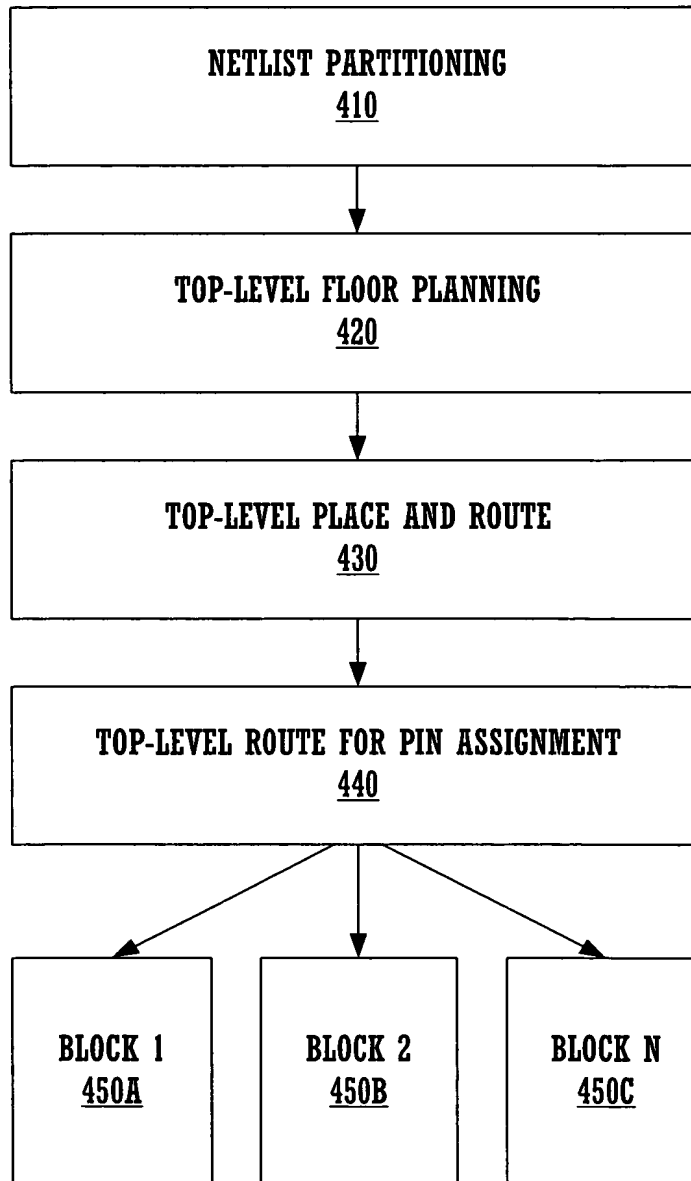


FIGURE 4



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500

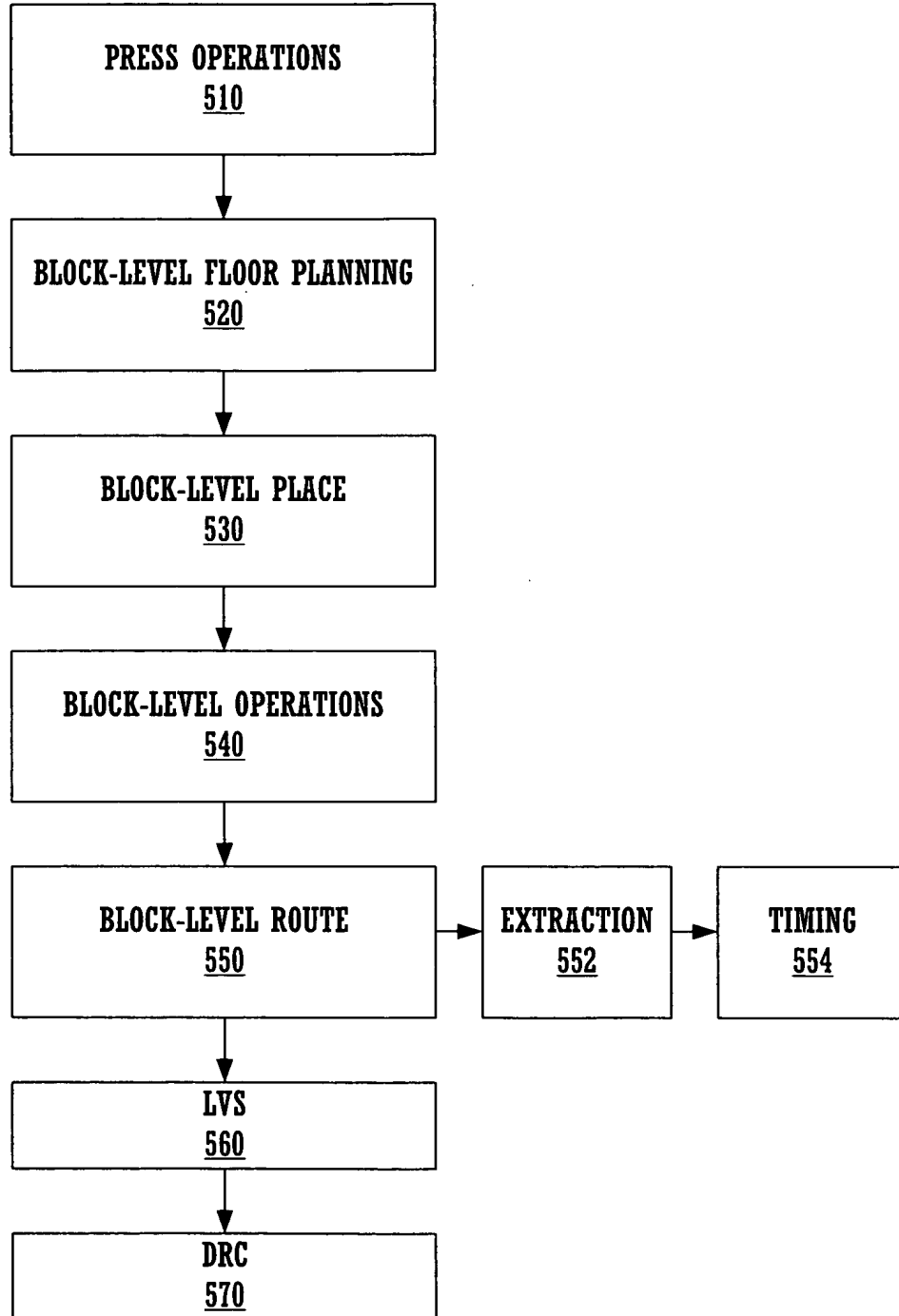


FIGURE 5



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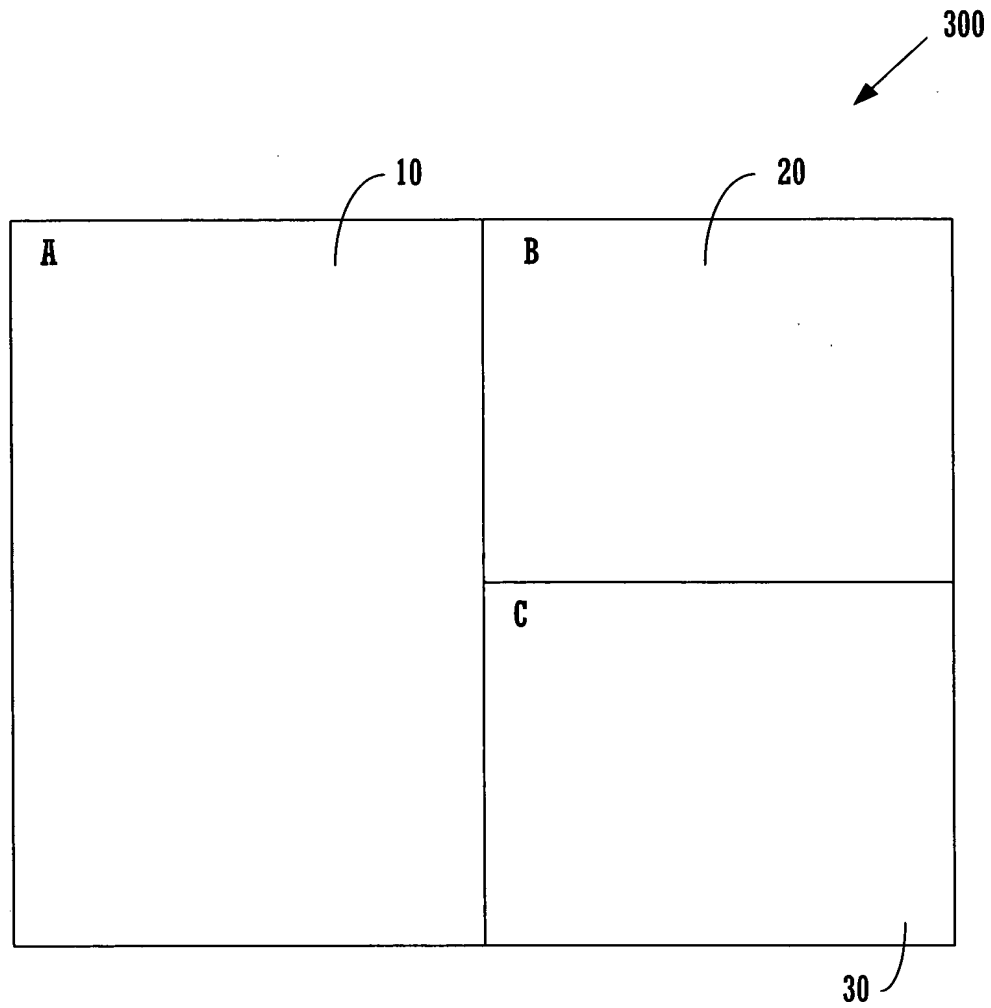


FIGURE 6



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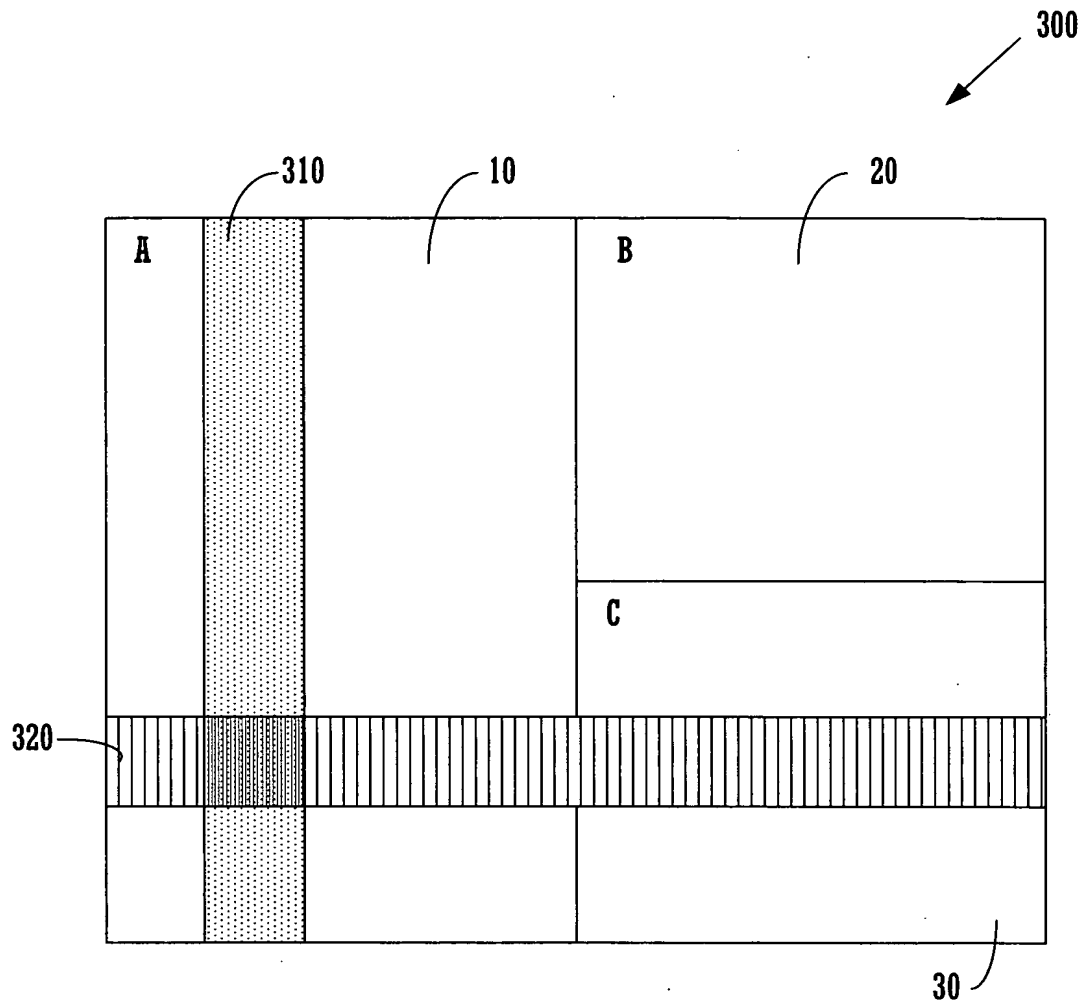
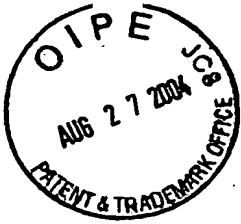


FIGURE 7



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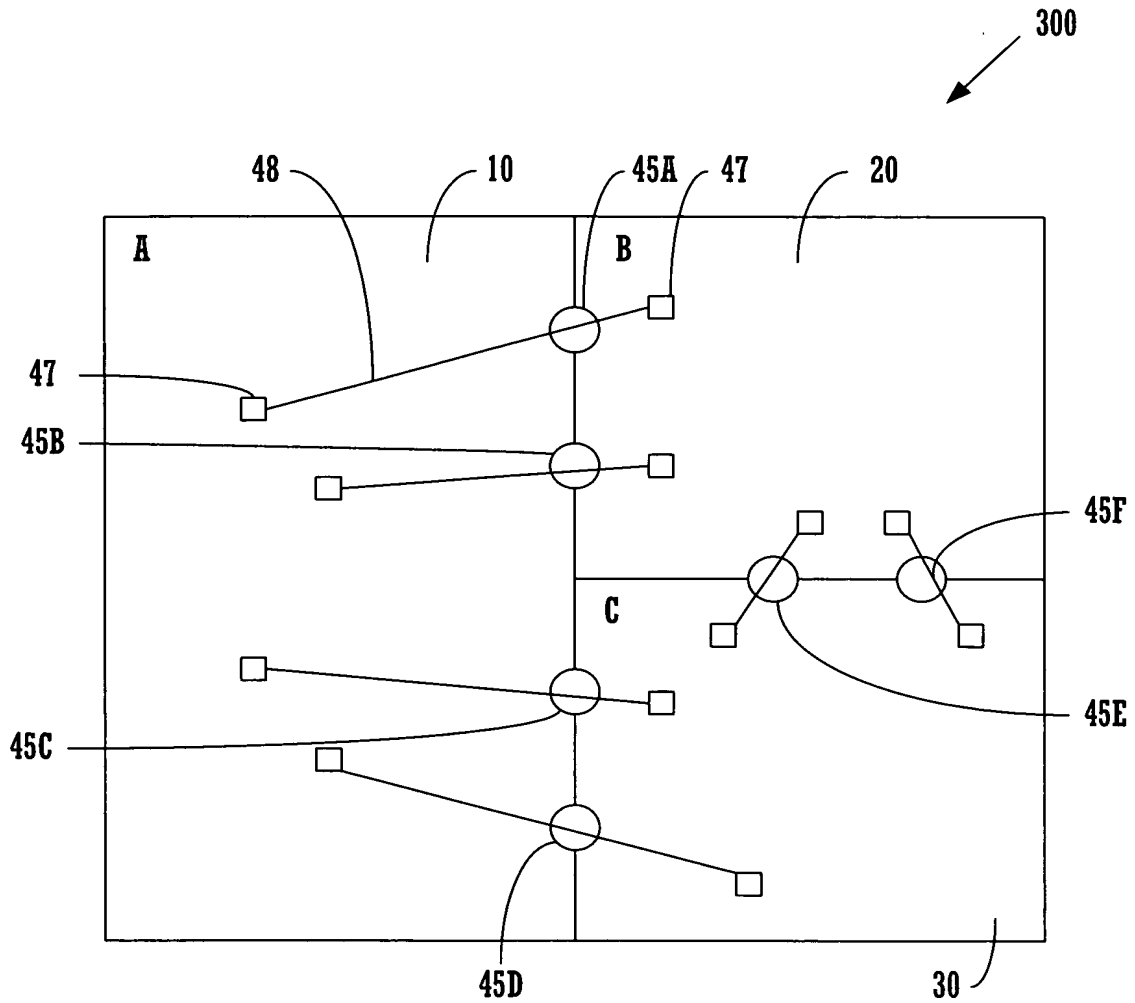
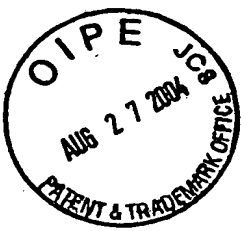


FIGURE 8





TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN  
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman  
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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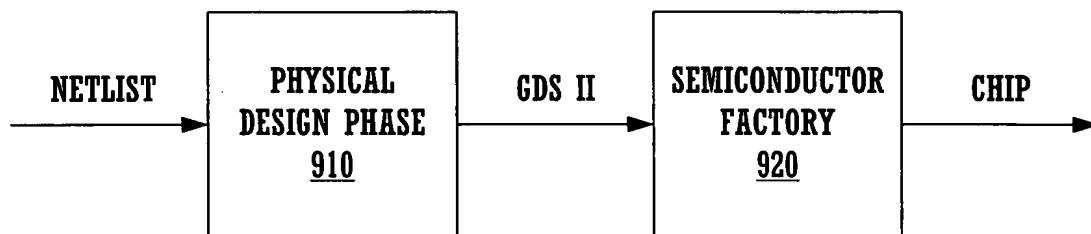


FIGURE 9A  
(Prior Art)



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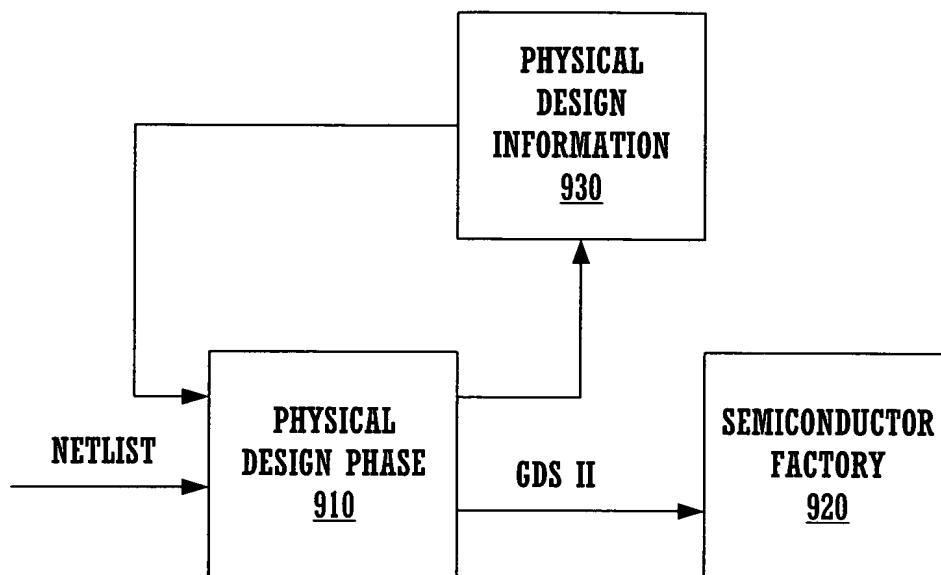


FIGURE 9B



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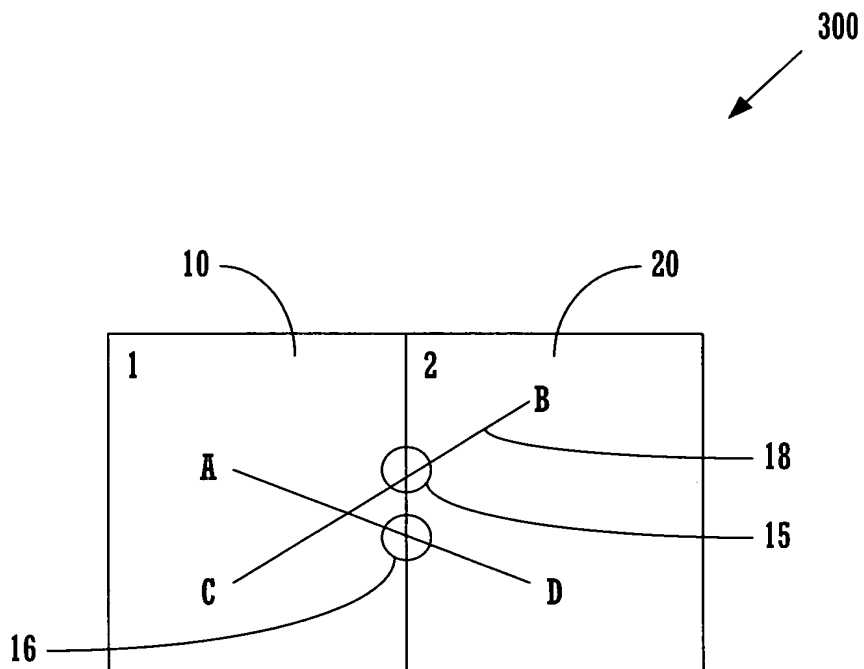


FIGURE 10A



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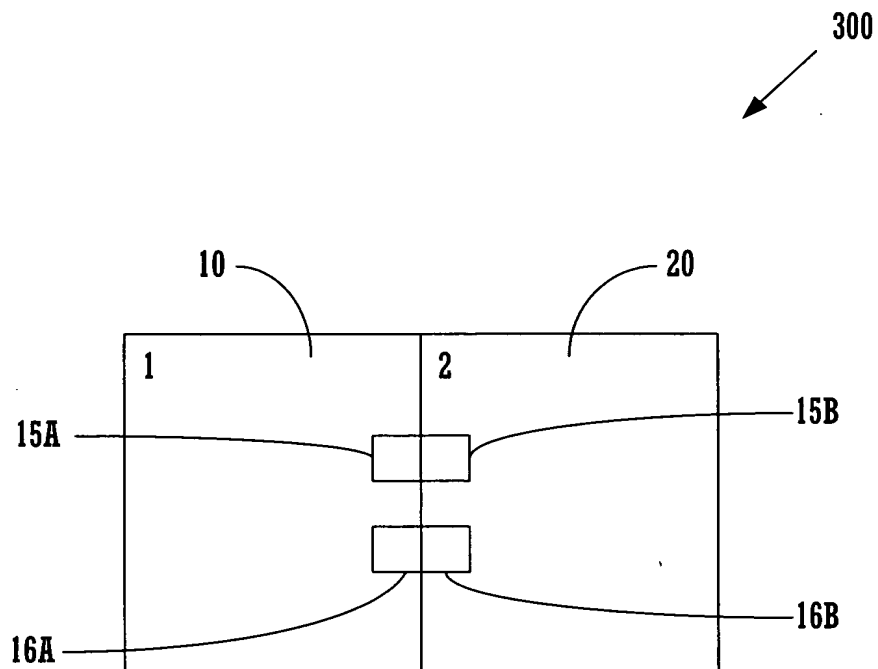


FIGURE 10B



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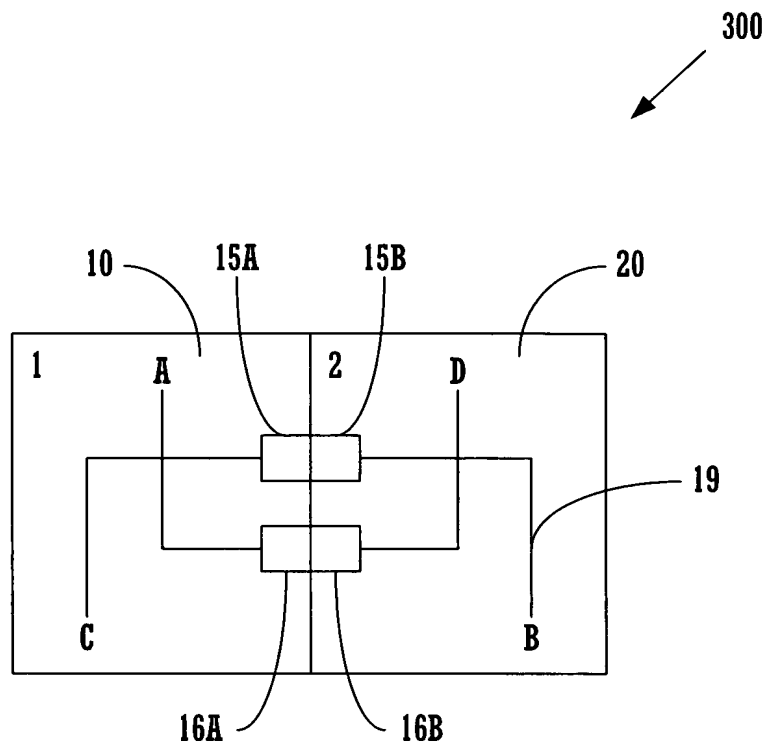


FIGURE 10C



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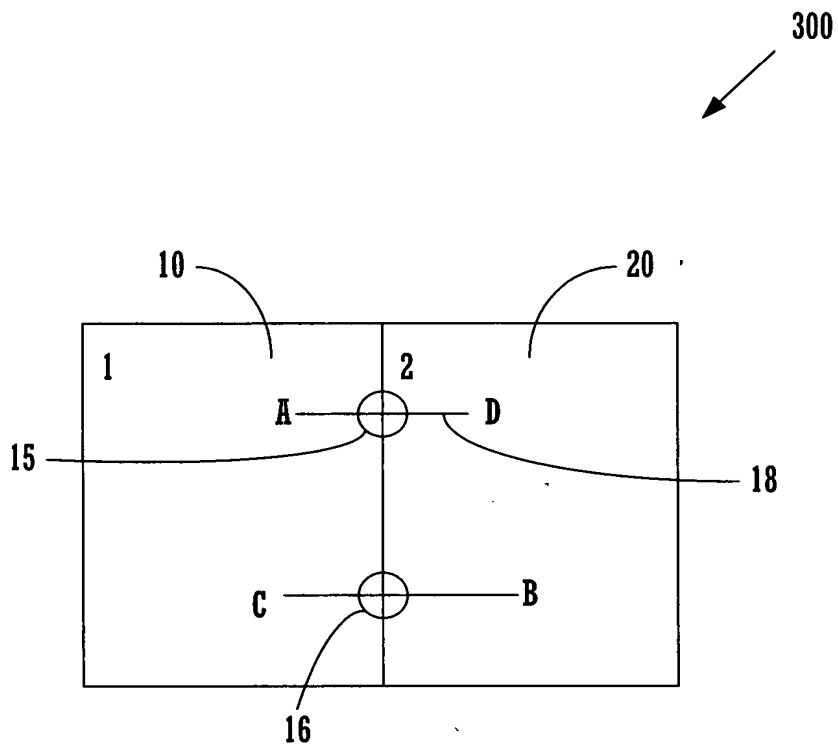
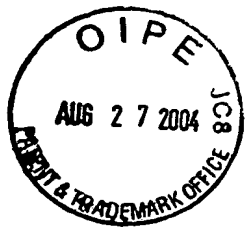


FIGURE 11A



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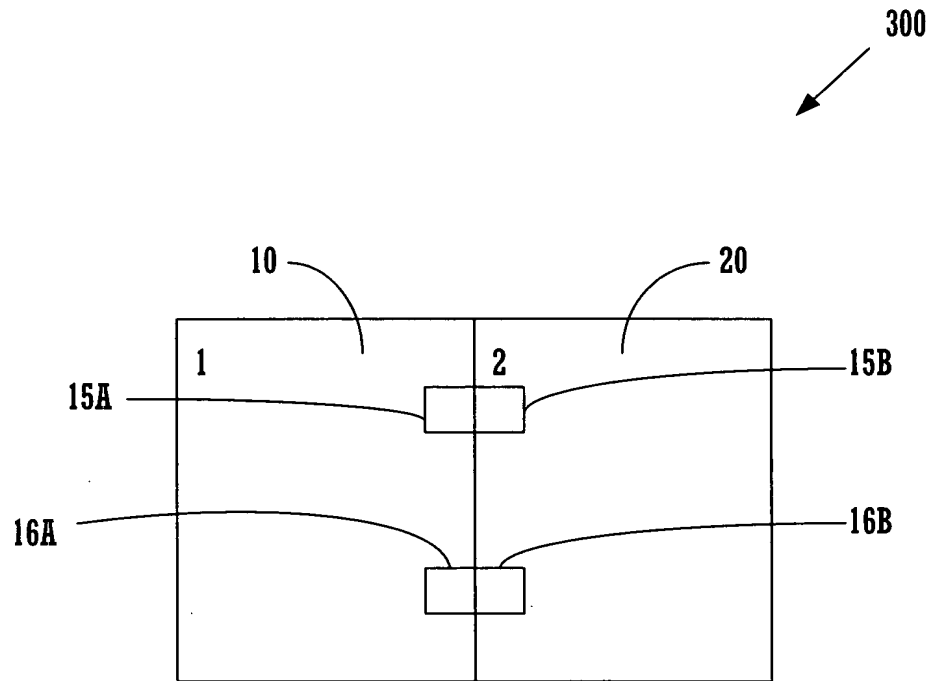


FIGURE 11B



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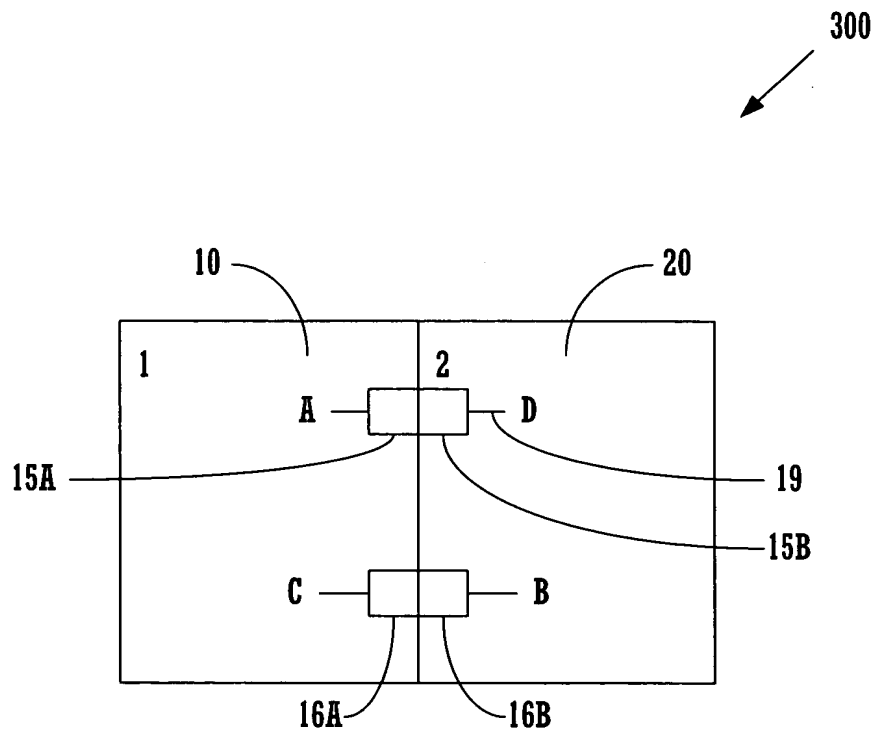


FIGURE 11C





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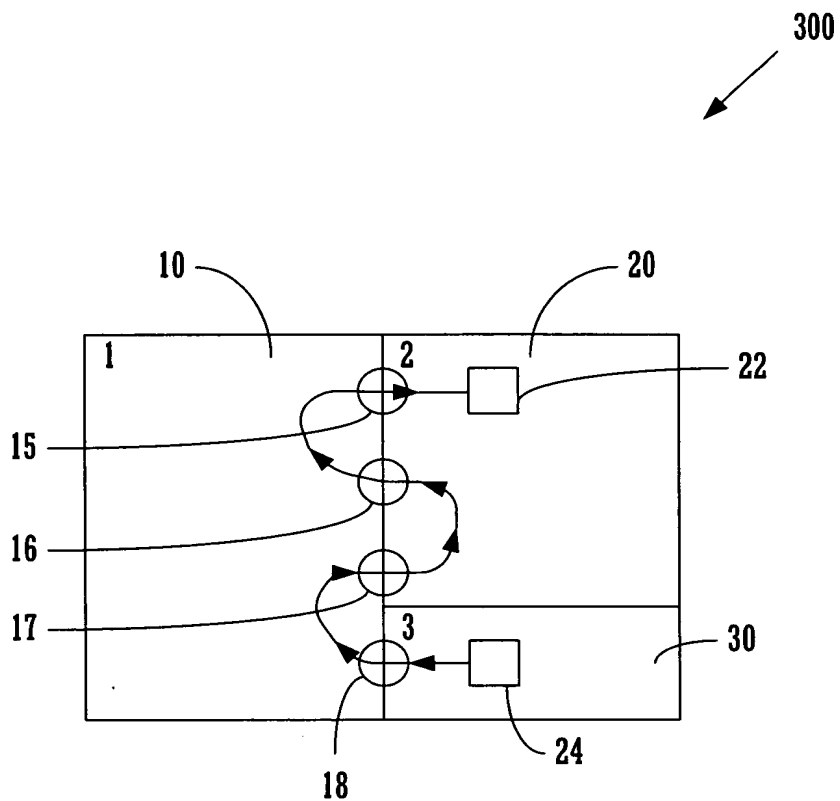


FIGURE 12A



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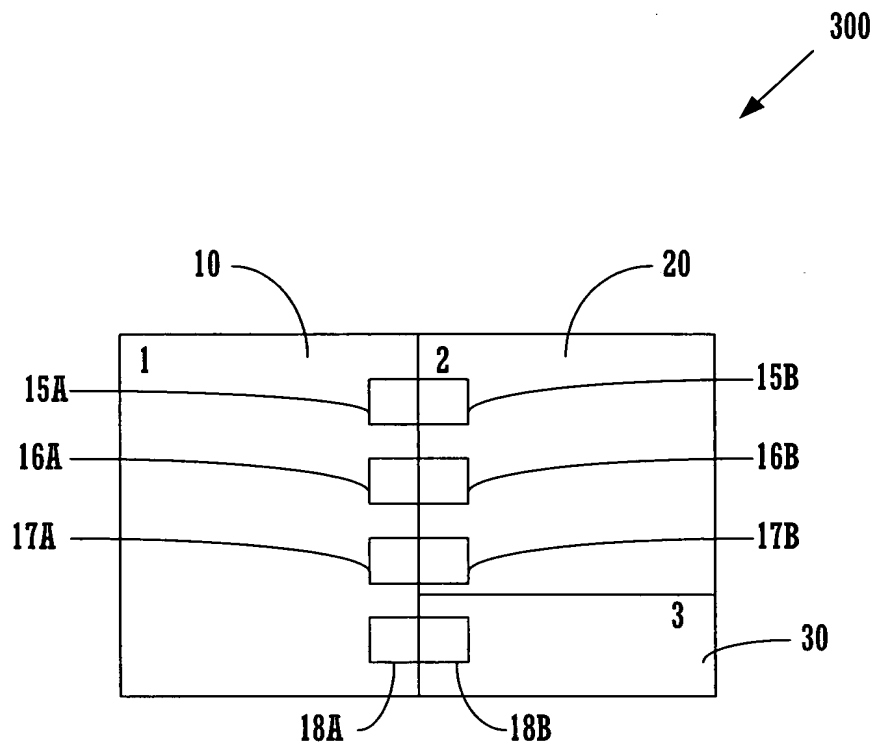


FIGURE 12B



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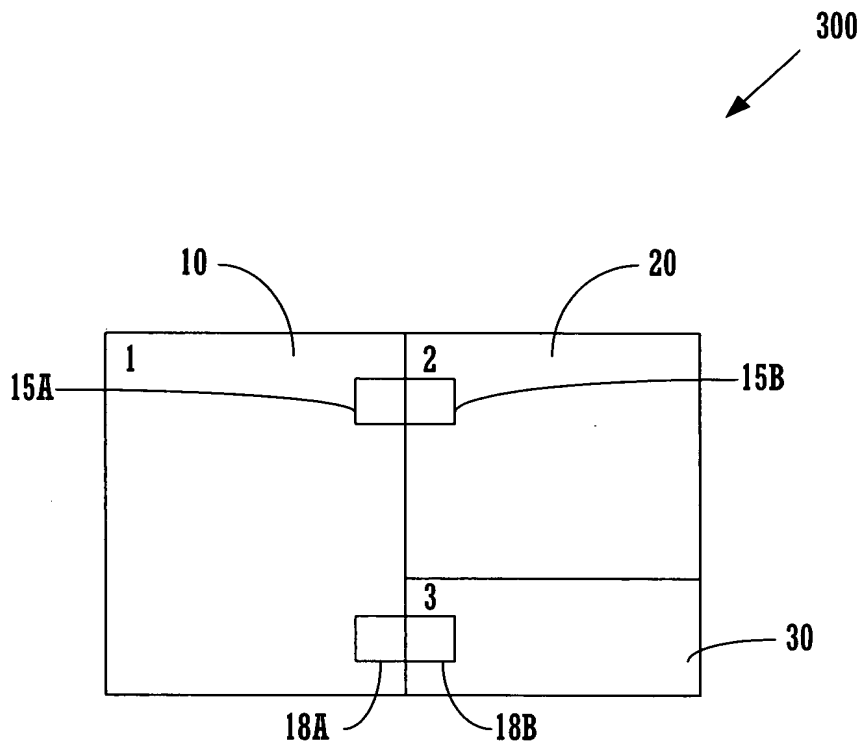


FIGURE 12C

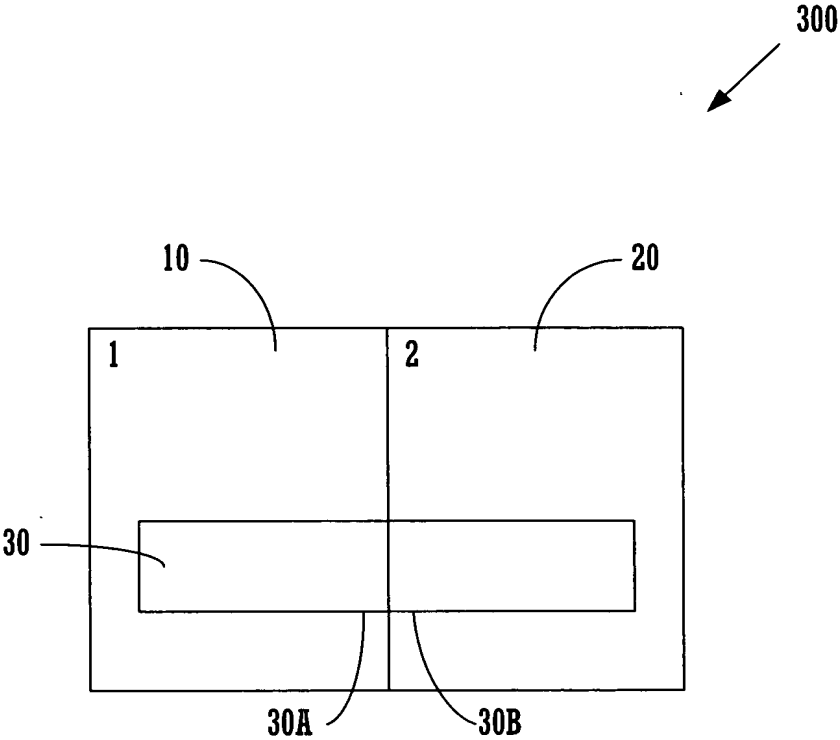


FIGURE 13A



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN  
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman  
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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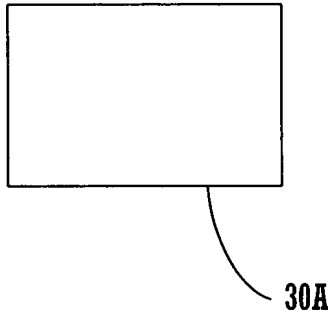


FIGURE 13B



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN  
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman  
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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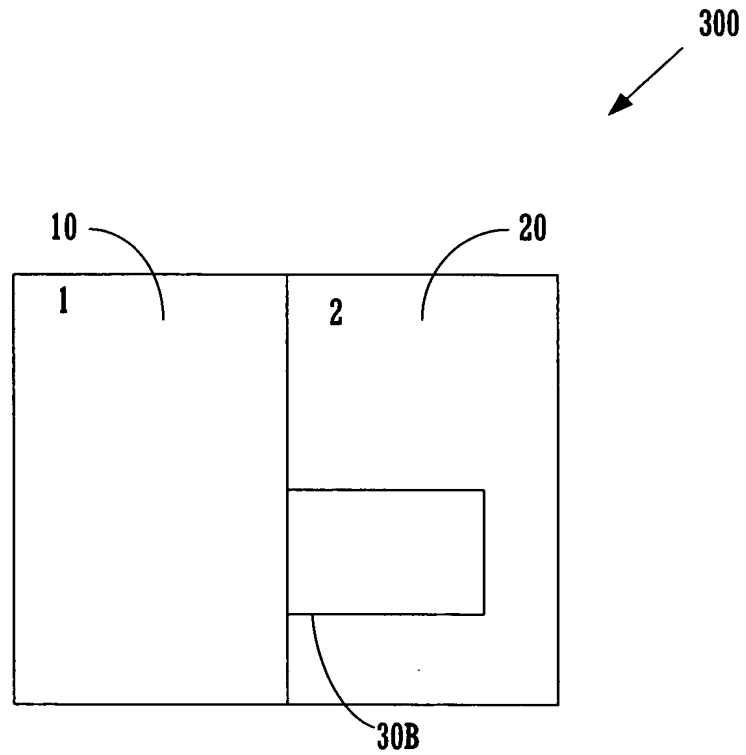


FIGURE 13C



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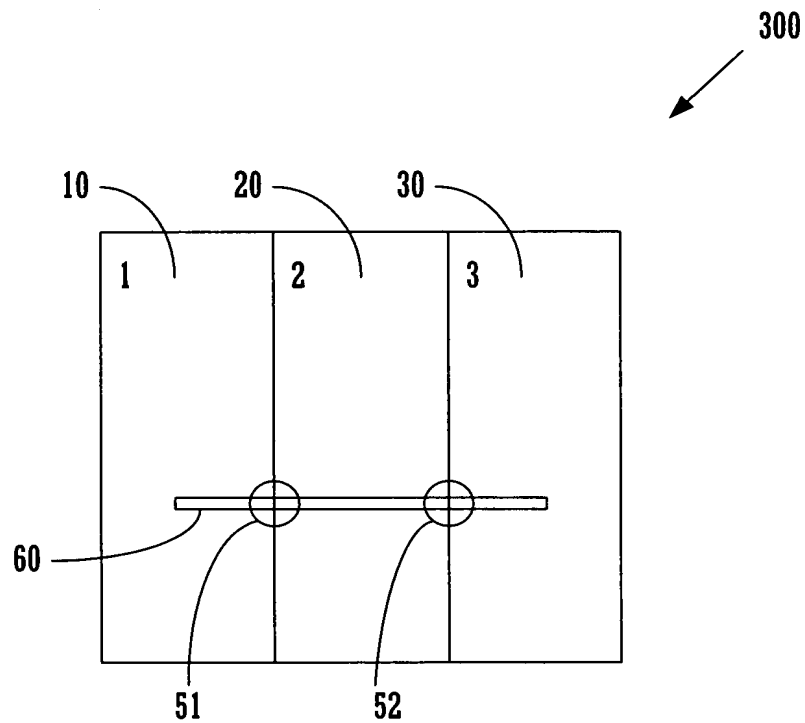


FIGURE 14A



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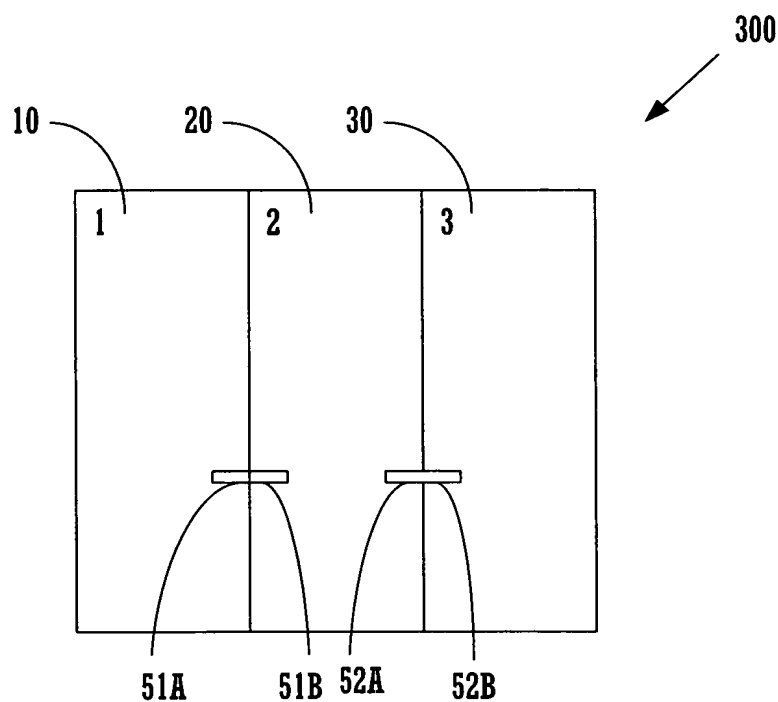


FIGURE 14B





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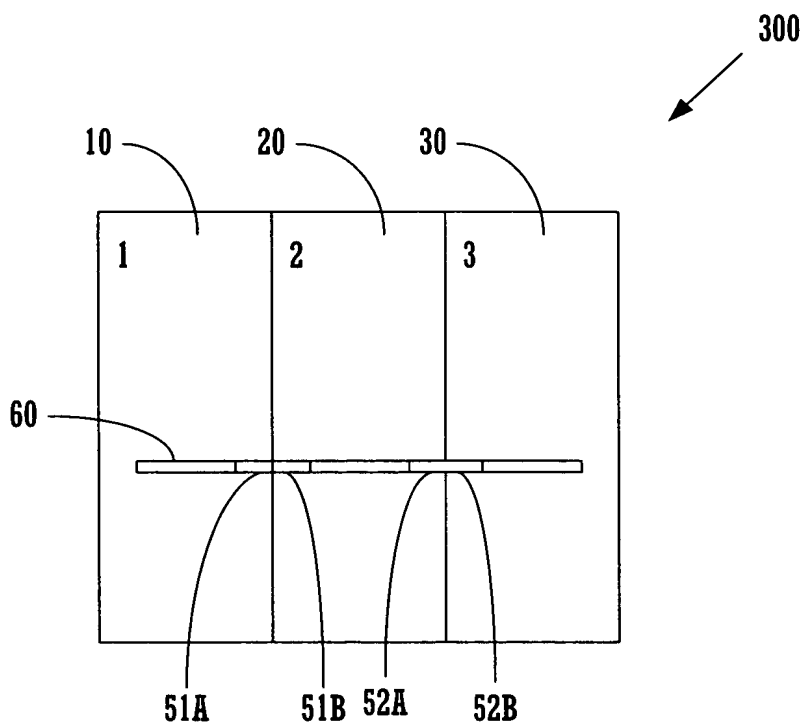


FIGURE 14C



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN  
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman  
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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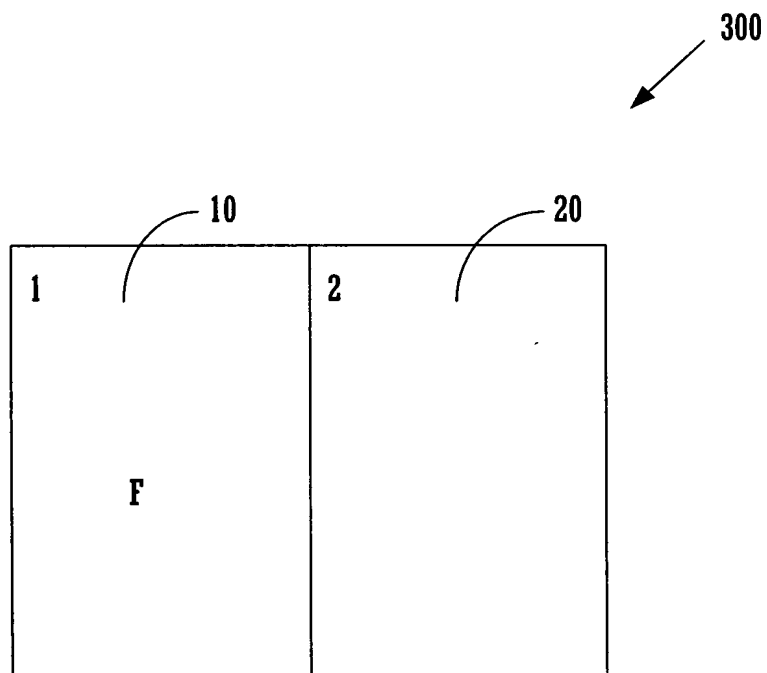


FIGURE 15A



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN  
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman  
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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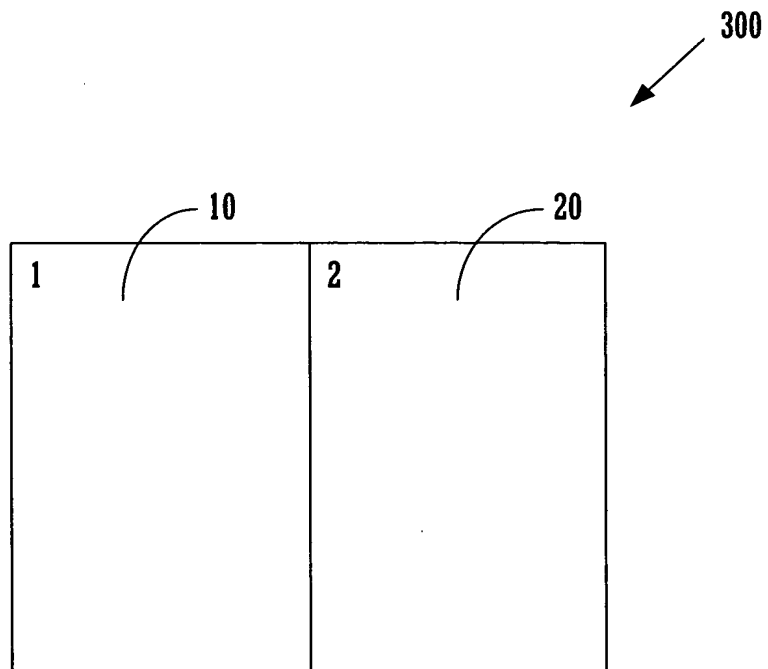


FIGURE 15B



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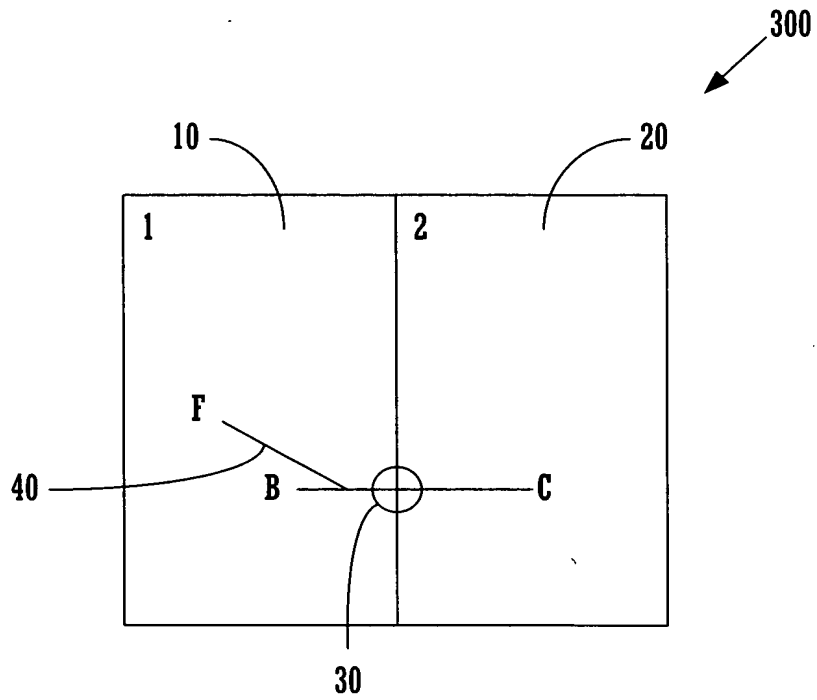


FIGURE 16A



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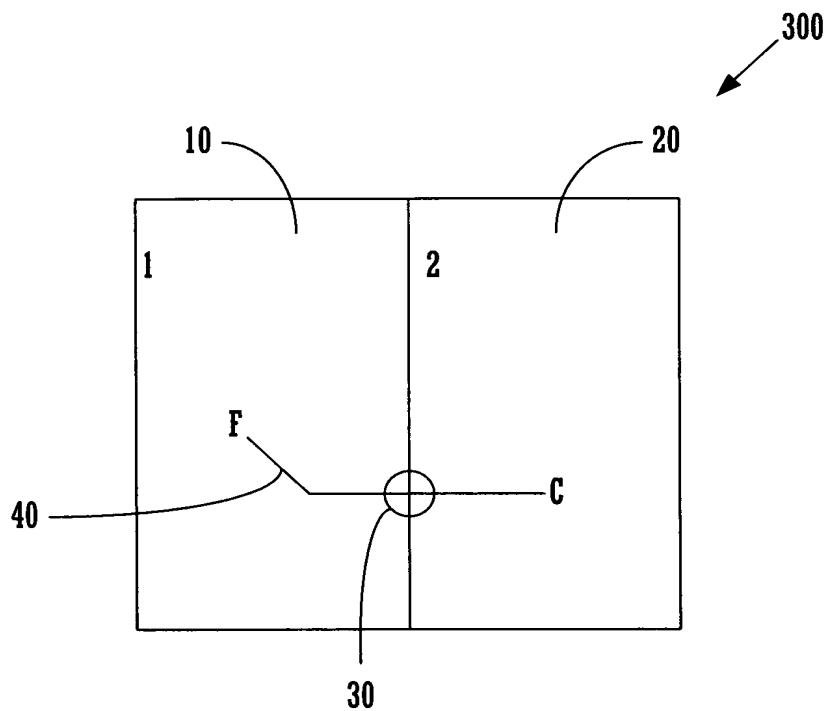


FIGURE 16B



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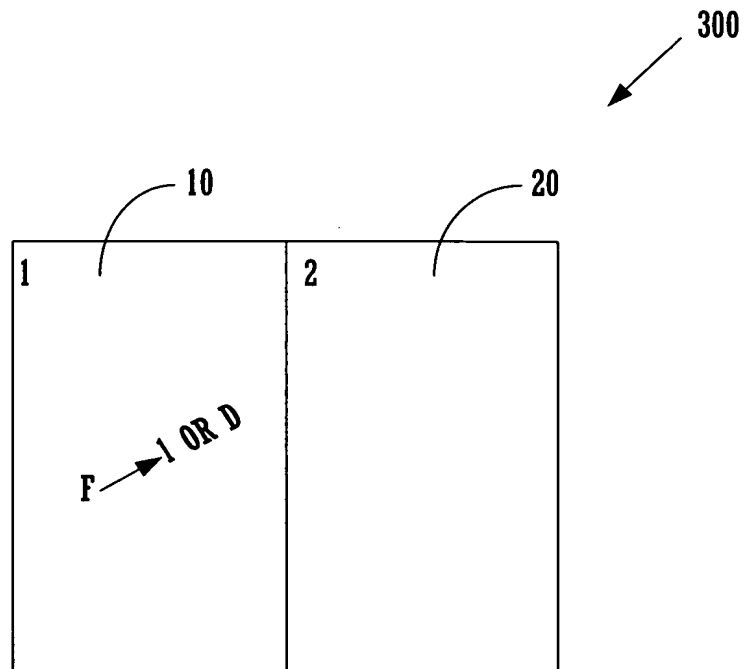


FIGURE 17A



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN  
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman  
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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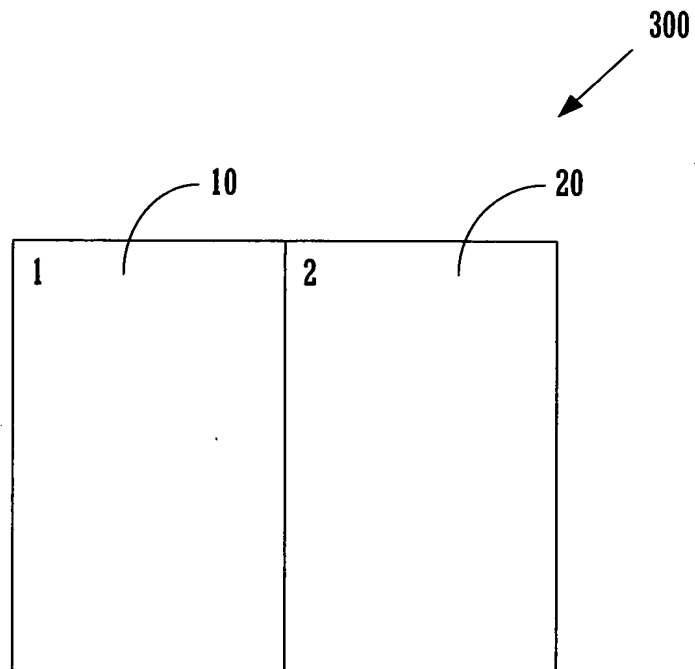


FIGURE 17B